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RCRA Compliance Section  
EPA Region III

PPG INDUSTRIES, INC./BOX 191/NEW MARTINSVILLE, WEST VIRGINIA 26155/AREA 304/455-2200

Natrium Plant  
Industrial Chemical Division - U.S.

February 25, 1983

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Regional Administrator  
U.S. Environmental Protection Agency  
Region III  
Sixth and Walnut Streets  
Philadelphia, PA 19106

Dear Sir:

Operators of a surface impoundment are required by 40 CFR 265.94 (amended 1/28/83) to submit annually results of groundwater well monitoring and groundwater surface elevations.

PPG Industries, Inc., is submitting the results of its first year groundwater monitoring for its active surface impoundment, EPA I.D. No. WVD 004336343, at Natrium, West Virginia, for the parameters in 265.92 (b)(3) as required by 265.94 (a)(2)(ii). Groundwater surface elevations [265.94 (a)(2)(iii)] are reported also.

The four quarterly reports for the parameters in 265.92 (b)(1) as required by 265.94 (a)(2)(i) were submitted previously.

If further information is required, please contact me at this location, or by telephone (304) 455-2200, extension 3291.

Sincerely yours,

Warren E. Dean  
Technical Manager

WED-CED:egm

Enclosures

cc: Mr. D. W. Robinson, Chief  
Division of Water Resources  
Department of Natural Resources

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EPA, R3

40 CFR 265.94 (a)(2)(ii) Value of Parameters in 265.92 (b)(3) for Each Groundwater Monitoring Well

Well No. GM-0 (Reference Well)

	<u>1/4/82</u>	<u>5/10/82</u>	<u>8/3/82</u>	<u>11/15/82</u>	<u>Arithmetic Mean</u>	<u>Variance</u>
pH	8.1, 7.2 7.1, 7.1	7.0, 7.0 7.0, 7.0	6.9, 7.1 7.1, 7.1	7.2, 7.0 7.0, 7.0	7.1	.01
Specific Conductance, μ mho	760, 630 620, 630	600, 600 600, 600	570, 571 570, 570	644, 652 633, 634	618	1640
Total Organic Carbon, mg/l	4.0, 2.4 2.3, 2.6	1.75, 1.82 1.84, 1.78	4.7, 4.5 4.4, 4.3	4.5, 4.4 4.3, 4.3	3.4	1.71
Total Organic Halogen, μg/l	20, 20 20, 20	100, 70 70, 100	120, 40 70, 50	20, <20 <20, <20	49	1140

Well No. GM-1

	<u>1/4/82</u>	<u>5/10/82</u>	<u>8/3/82</u>	<u>11/15/82</u>	<u>Arithmetic Mean</u>	<u>Variance</u>
pH	7.1, 7.1 7.1, 7.1	7.4, 7.4 7.3, 7.3	7.5, 7.3 7.3, 7.3	7.1, 7.1 7.2, 7.2	7.25	0.02
Specific Conductance, μ mho	1100, 1000 1010, 1100	900, 900 900, 900	966, 966 948, 944	1075, 1073 1065, 1065	995	6473
Total Organic Carbon, mg/l	23.8, 26.0 22.6, 21.4	5.86, 5.69 5.88, 5.71	13.5, 14.5 14.9, 14.0	23.4, 23.0 22.5, 22.1	16.6	69.5
Total Organic Halogen, μg/l	<20, <20 <20, <20	180, 170 170, 170	90, 90 70, 90	50, 30 20, 20	77	4913

Well No. GM-2

	<u>1/4/82</u>	<u>5/10/82</u>	<u>8/3/82</u>	<u>11/15/82</u>	<u>Arithmetic Mean</u>	<u>Variance</u>
pH	7.1, 7.1 7.1, 7.1	7.2, 7.2 7.1, 7.1	7.1, 7.1 7.1, 7.1	7.1, 7.1 7.1, 7.1	7.11	.0006
Specific Conductance, μ mho	1380, 1390 1370, 1380	1200, 1200 1200, 1200	1123, 1162 1151, 1165	1282, 1271 1261, 1249	1249	9884
Total Organic Carbon, mg/l	8.9, 20.8 8.3, 13.6	5.58, 5.39 5.38, 5.36	3.5, 3.4 3.3, 3.2	7.6, 7.5 7.4, 7.0	7.3	17
Total Organic Halogen, μg/l	<50, <50 <50, <50	80, 100 90, 100	<20, 20 20, 40	30, <20 30, <20	48	999

Well No. GM-6

	<u>1/4/82</u>	<u>5/10/82</u>	<u>8/3/82</u>	<u>11/15/82</u>	<u>Arithmetic Mean</u>	<u>Variance</u>
pH	7.1, 7.1 7.1, 7.1	7.2, 7.1 7.1, 7.2	7.3, 7.3 7.2, 7.2	7.2, 7.2 7.1, 7.0	7.15	.0045
Specific Conductance, μ mho	850, 850 850, 840	1000, 1000 1000, 1000	833, 811 857, 875	884, 879 901, 898	896	5283
Total Organic Carbon, mg/l	19.1, 21.2 20.9, 21.7	3.61, 3.67 3.73, 3.64	8.9, 9.2 9.2, 9.2	7.3, 7.3 7.4, 7.4	10.2	54
Total Organic Halogen, μg/l	20, 20 20, 20	40, 40 50, 30	20, 30 20, 20	<20, <20 <20, <20	25	95

40 CFR 265.94 (a)(2)(iii)    Groundwater Surface Elevations in 265.93 (f)

Groundwater Surface Elevations  
(Relative to Mean Sea Level, Feet)

	<u>11/81</u>	<u>3/82</u>	<u>6/82</u>	<u>9/82</u>
GM-1	612.3	611.1	610.9	611.6
GM-2	623.6	622.5	621.3	622.2
GM-6	631.1	642.4	636.7	633.0

Note: Reference Well GM-0 is northwest of the active impoundment and Wells GM-1, GM-2, and GM-6. It is not an up-gradient well because the uppermost aquifer does not occur up-gradient of the impoundment and monitoring wells. There is no means of measuring the groundwater surface elevation at Well GM-0, which is in continuous operation.